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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,775	07/14/2003	Chao-Chin Wu	1496-888	6049
7590 03/29/2005			EXAMINER	
John S. Egbert			AVERY, BRIDGET D	
Harrison & Egbert 7th Floor			ART UNIT	PAPER NUMBER
412 Main Street			3618	
Houston, TX 77002			DATE MAILED: 03/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
$\checkmark$	10/618,775	WU, CHAO-CHIN			
Office Action Summary	Examiner	Art Unit			
	Bridget Avery	3618			
The MAILING DATE of this communication ap	1 -	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPORTED MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replive if NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statuance in the set of the set of the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO.	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 29	November 2004.				
· _ · _					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-3 is/are pending in the application 4a) Of the above claim(s) is/are withdres 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examir 11).	ccepted or b) objected to by the drawing(s) be held in abeyance. Sometion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received.  Ints have been received in Application or ty documents have been received in Rule 17.2(a)).	ation No ived in this National Stage			
Attachment(s)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	4) Interview Summa Paper No(s)/Mail  5) Notice of Informa  6) Other:	ary (PTO-413) Date Il Patent Application (PTO-152)			

#### **DETAILED ACTION**

1. The preliminary amendment filed by applicant on July 14, 2003 is acknowledged and has been entered.

### Specification

2. It is suggested that applicant amend the abstract to read "A wheel structure for an electric wheelchair..."

### Claim Objections

3. Claim 1 objected to because of the following informalities: on line 5, --the--should be inserted before "axle". Appropriate correction is required.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claim 1 recites the limitation "the electric wheelchair" in line 1. There is insufficient antecedent basis for this limitation in the claim.
- 5. Regarding claims 1 and 3, the phrase "or the like" renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "or the like"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Lawson, Jr. (US Patent 6,631,925).

Lawson teaches a wheel structure on an electric wheelchair (10), the wheel structure including an axle (20) fastened to a body frame of the electric wheelchair (10), a brake device (50) mounted on an outer end of the axle (20), a cover (note element surrounding drum/disk 52 and band/shoe 53 as clearly shown in Figures 6-8) mounted on the outer end of the axle (20), an assembly drum/disk (52) mounted on the outer end of the axle (20), and a wheel frame (clearly shown in Figure 6) mounted on the outer end of the axle (20), the brake device (50) including a brake band/shoe (53), an actuating rod, and a brake seat on which the brake band/shoe (53) and the actuating rod are mounted; the axle (20) has an inner end which is fitted into an axle tube (48); the brake seat of the brake device (50) is provided in an inner side with an hollow tubular portion for locating the brake seat and the, the hollow tubular portion is fitted over the axle tube (48), as clearly shown in Figures 6 and 7. The axle tube (48) has an outer threaded portion (55); the hollow tubular portion of the brake seat is provided with an inner threaded portion (inherently taught) where the hollow tubular portion is fitted

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over the axle tube (48) in such an manner that the inner threaded portion of the hollow tubular portion is engaged with the outer threaded portion of the axle tube (48). The brake seat of the brake device (50) being positioned by a locating plate (also clearly shown in Figure 6) and the locating plate is fastened at one end (via bolt 51) to the brake seat, and at another end to the body frame (via axle 20) of the electric wheelchair (10).

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Novak shows a wheel mounting.

Bellehumeur et al. shows a brake for inline skates.

Ebbinghaus shows an arrangement of a brake disc on a wheel hub.

Goettker shows a disk brake assembly for wheel of a trailer.

Perez shows a brake and wheel assembly.

Erdmann shows a disk brake for vehicles, especially for motorcycles.

Beatty shows a convertible rail-highway vehicle axle assembly.

Boyles shows disk brakes.

Lockmann shows a brake disk and support means therefor.

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8. Any inquiry concerning this communication should be directed to Bridget Avery at telephone number 703-308-2086.

March 16, 2005

Current M. Ferrer